

IDS

**US DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE**

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APPLICANT: YUHUA LI, ET AL.  
FOR: ALL-OPTICAL REGENERATION

**LIST OF ART CITED BY APPLICANT****U.S. PATENT DOCUMENTS**

EXAMINER	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
MAN	AA 3,566,128	02/23/1971	Arnaud	250	199
AB	5,828,478	10/27/1998	Thomine, et al.	359	181
AC	5,933,265	08/03/1999	Nagarajan	359	189
AD	6,078,416	06/20/2000	Yano	359	158
AE	6,108,125	08/22/2000	Yano	359	344
AF	6,141,129	10/31/2000	Mamyshev	359	176
AG	6,201,621	03/13/2002	Desuvire, et al.	359	158
AH	6,335,819	01/01/202	Cho, et al.	359	333
AI	6,437,320	08/20/2002	Yoshida, et al.	250	227.11

**PATENT APPLICATION PUBLICATIONS**

MAN	RA US2001/0013965A1	08/16/2001	Watanabe	359	161
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**FOREIGN ART**

NONE

**OTHER ART (Including Date, Title, Author, Pertinent Pages, Etc.)**

07/1993	Soliton Transmission Control Time And Frequency Domains	Hirkazu Kubota, Et Al.	2189-2197
07/1993	A Terahertz Optical Asymmetric Multiplexer (Toad)	J.P. Sokoloff, Et Al.	787-790
03/1996	Suppression of Signal Fluctuation Induced By Crosstalk Light In A Gain Saturated Laser Diode Amplifier	Kyo Inoue	458-460

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Exc.

mpm	OD	11/1997	Semiconductor Laser Amplifiers For Ultrafast All-Optical Signal Processing	R.J. Manning, Et Al.	3204-3216
mpm	OE	03/1998	3.8-THz Wavelength Conversion of Picosecond Pulses Using a Semiconductor Delayed-Interference Signal-Wavelength Converter (DISC)	Yoshiyasu Ueno, Et Al.	346-348
	OF	03/1998	20Gbit/s Optical 3R Regeneration Using Polarisation-Independent Monolithically integrated Michelson Interferometer	K.S. Jepsen, Et Al.	472-474
	OG	09/1998	All-Optical Data Regeneration Based on Self-Phase Modulation Effect	P.V. Mamyshev	475-476
	OH	08/1999	80Gbit/s All-Optical Regenerative Wavelength Conversion Using Semiconductor Optical Amplifier Based Interferometer	A.E. Kelly	1477-1478
	OI	12/1999	All-Optical 2R Regeneration and Wavelength Conversion as 20 Gb/s Using an Electroabsorption	Pac S. Cho	1662-1664
	OJ	01/2000	All-Optical Noise Suppression Using Two-Stage Highly-Nonlinear Fibre Loop Interferometers	S. Watanabe, Et Al.	52-53
	OK	01/2000	Experimental Demonstration of New Regeneration Scheme for 40Gbit/s Dispersion-Managed Long-Haul Transmissions	P. Brindel, Et Al.	61-62
	OL	02/2000	Dense WDM (0.27bits/s/Hz) 4 x 40 Gbit/s Dispersion-Managed Transmission Over 1000km With In-Line Optical Regeneration by Channel Pairs	O. Leclerc, Et Al.	337-338
	OM	02/2000	Efficient regenerative Wavelength Conversion at 10Gbit/s Over C- and L-band (80 nm span) using a Mach-Zehnder Interferometer With Monolithically Integrated Semiconductor Optical Amplifiers	M. Dulk, Et Al	241-243
	ON	03/2000	40-Gb/s All-Optical Wavelength Conversion, Regeneration, and Demultiplexing in an SOA-Based All-Active Mach-Zehnder Interferometer	D. Wolfson, Et Al.	332-334
	OO	06/2000	100 Gbit/s All Optical Wavelength Conversion With Integrated SOA Delayed-Interference Configuration	J. Leuthold, Et Al.	1129-1130
	OP	08/2000	Simultaneously Regenerated 4 x 40 Gbit/s dense WDM Transmission Over 10,000km Using Single 40GHz InP Mach-Zehnder Modulator	O. Declerc, Et Al.	1574-1575
	OQ	2000	Simultaneous 3R Regeneration and Wavelength Using a Fiber-Parametric Limiting Amplifier	Yikai Su, Et Al.	1-3
	OR	2000	Novel Modulation Techniques	Nick J. Doran	91-92
	OS	2000	10 Gbits/s All-Optical 3R Regeneration and Form Conversion Using a Gain-Switched DFB Laser	M. Owen, Et Al.	472-473
	OT	10/2001	168-Gb/s All Optical Wavelength Conversion With a Symmetric-Mach-Zehnder-Type Switch	Shigeru Nakamura, Et Al	1091-1093
mpm	OU	2002	40 Gbit/s Pseudo-Linear Transmission Over One Million Kilometers	G. Raybon, Et Al.	1-3

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EXC  
OY MAM  
OW MAM  
OX MAM

All-Optical 3R Regeneration and Format Conversion  
in an Integrated SOA/DFB Laser

M. Owen, Et Al.

1-3

40 Gbit/s Signal Transmission using Optical 3R  
Regenerator based on Electroabsorption Modulators

T. Otani, Et Al

1-3

20 Gbit/s all-optical Regeneration and Wavelength  
Conversion Using SOA Based Interferometers

G. Raybon, Et Al.

27-29

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